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## UNDERFILL COMPOSITIONS

## ABSTRACT OF THE DISCLOSURE

An underfill composition having improved mechanical properties resulting from the inclusion of a novel "coreshell" substance. The core-shell substance includes a fine powder, whose particles each having an outer shell with a  $T_{\rm g}$ significantly above room temperature, and an inner core with a  $T_{\rm g}$  significantly below room temperature. The shell substance often includes an acrylate or methacrylate and the core includes a wide range of materials, such as acrylates 10 and silicone or butadiene-based rubbers.